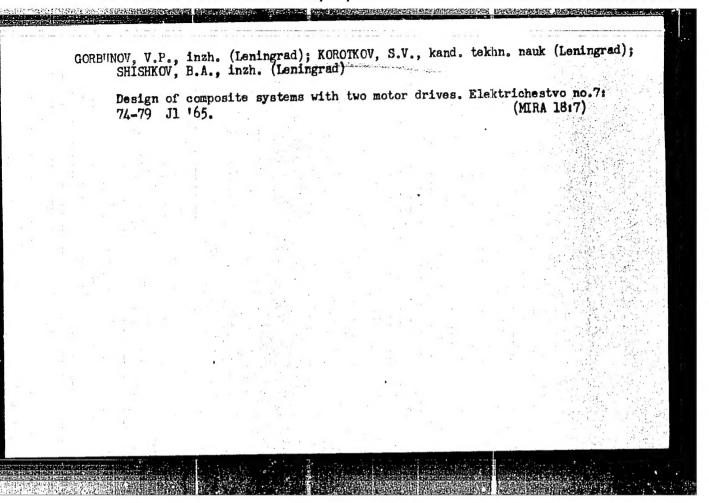
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Card 2/2			



ACC NRI AR6035558 SOURCE CODE: UR/0269/66/000/010/0080/0080

AUTHOR: Korotkov, S. V.; Myasnikov, V. A.; Sabinin, Yu. A.

THE CONTRACTOR OF THE PROPERTY OF THE PROPERTY

TITLE: Principles of designing digital control systems for astronomical instruments

SOURCE: Ref. zh. Astronomiya, Abs. 10.51.599 "

REF SOURCE: Sb. Avtomatizir. elektroprivod proizv. mekhanizmov. T. 1. M.-L., 1965, 188-194

TOPIC TAGS: digital converter, digital computer, digital system, astronomic instrument, digital control system

ABSTRACT: Some questions of principle pertaining to the design of a digital servodrive for azimuthal instruments are studies. The digital control system contains a computer for converting equatorial coordinates into azimuthal ones, true position pick-ups for instrument axes in space, and a drive along the azimuth and zenith distance axes, which is controlled by the computer. The system should provide a total accuracy of no less than 10. Bibliography contains 9 titles. [Translation of abstract]

Card 1/1 SUB CODE: 03, 09/

UDC: 62-52:522. 2

CIA-RDP86-00513R000824910019-7" APPROVED FOR RELEASE: 06/14/2000

ACC NR: AR7002214

SOURCE CODE: UR/0271/66/000/010/A035/A035

AUTHOR: Korotkov, S. V.; Myasnikov, V. A.; Sabinin, Yu. A.

TITLE: Principles in the design of digital control systems for astronomical instruments

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 10A257

REF SOURCE: Sb. Avtomatizir. elektroprivod proizv. mekhanizmov, T. I. M.-L., 1965, 188-194

TOPIC TAGS: astrophysic instrument, servomechanism, digital computer system, space coordinate system, geodesy

ABSTRACT: An analysis is made of theoretical problems in the design of digital servodrive for azimuthal instruments. The system includes a computer for the conversion of equatorial into azimuthal coordinates, a transmitter for indicating the true position of the instrument's axes in space, and an adjusting mechanism for the azimuthal and zenithal positions controlled by the computer. With a

Card 1/2

UDC: 62-55

NR: AR70022		
accuracy >10" for a method of system and for description is a differential gea A method is al	the system must insure a fluctuation index of M-1 and overall. Recommendations are made, on the basis of the analysis, determining the time quantum period for the automatic control simplified design and engineering formulas are proposed. A liven of a complex dual-motion drive system, using an integrating the which provides consistent velocity control within a wide range. To proposed for reducing the number of leveling and calculating this control system. The text includes 4 illustrations and references. [Translation of abstract]	
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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86

CIA-RDP86-00513R000824910019-7

Concerning the introduction of an international system of units in the U.S.S.R. Med. promyshl. SSSR 17 no.8:61 Ag'63 (MIRA 17:2)

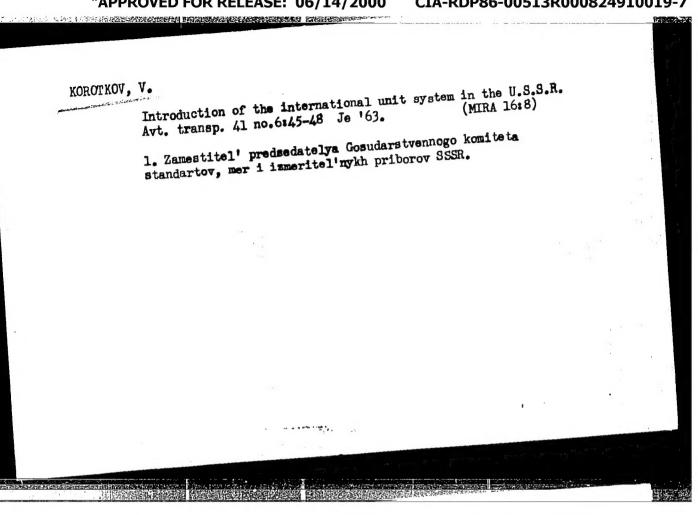
1. Zamestitel' predsedatelya Komiteta standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR.

KOROTKOV, V.

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Introducing the international system of units in the U.S.S.R. TSvet. met. 36 no.5:90-92 My '63. (MIRA 16:10)

1. Zamestitel' predsedatelya Komiteta standartov, mer i izmeritel'nykh priborov SSSR.



CIA-RDP86-00513R000824910019-7" APPROVED FOR RELEASE: 06/14/2000

KOROTKOV, V., inzh.; HENIN, Ya., inzh.

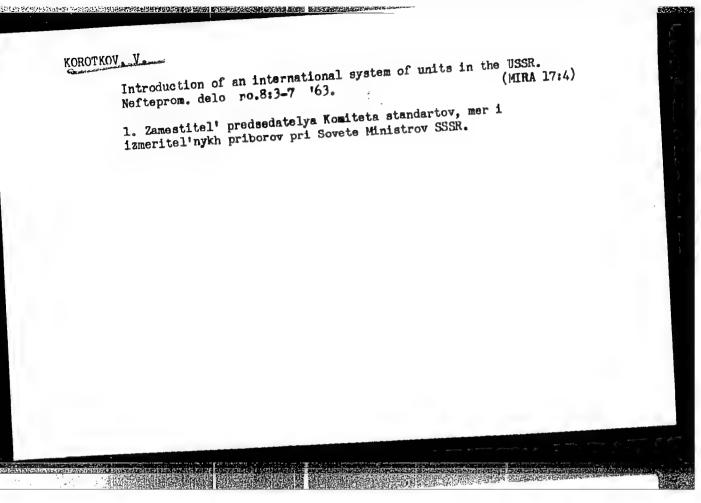
Checking the dustiness of air before adjusting dust controling
installations in grain milling enterprises. Muk.-elev. prem. 27
installations in grain

VITLIN, V., inzh.; KOROTKOV, V., inzh.; REMIN, Ya., inzh.

Use every means to improve the dust removal in grain elevators.

Muk.-elev. prom. 27 no.9:21-24 S '61. (MIRA 15:2)

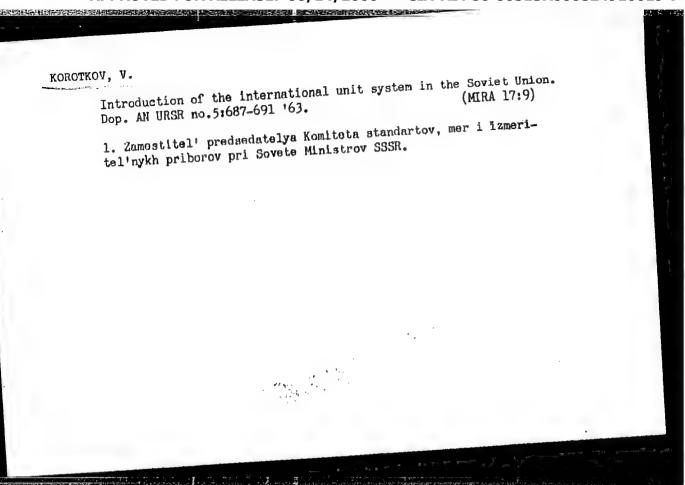
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(Grain—Cleaning)

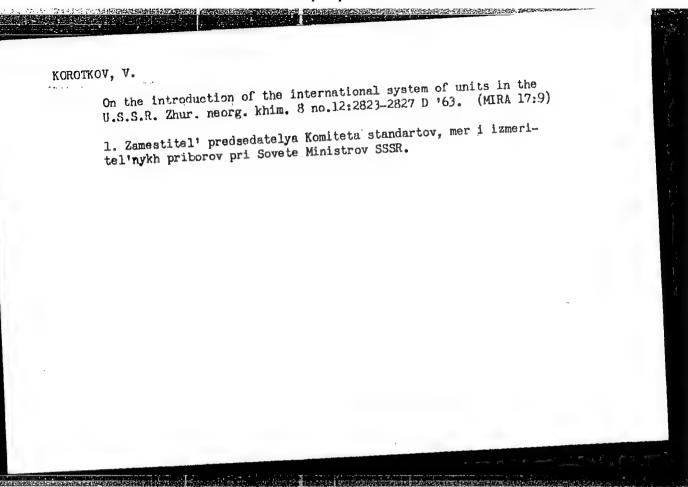


KOROTKOV, V.

Introduction of the International System of Units in the U.S.S.R. Izv. AN Arm. SSR. Khim. nauki 16 no.2:191-197 *63 (MIRA 17:8)

l. Zamestitel* predsedatelya Komiteta standartov, mer i izmeritel*nykh priborov pri Sovete Ministrov SSSR.





SOV/135-59-4-12/18

25 (1)

Korotkov, V. A., Welder

TITLE:

AUTHOR:

The Use of Filler Metal in the Form of a Tube filled with Flux (Primeneniye prisadochnogo metalla v vide trubki,

zapolnennoy flyusom)

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 4, p 41 (USSR)

ABSTRACT:

The author suggests the use of welding filler metal in the form of a tube filled with flux. Experiments were carried out with satisfactory results with: 1) a brass tube of 5 mm inner diameter and 350 mm length, filled with flux consisting of 70% boric acid, 21% calcined borax and 9% calcium fluoride, with propane-oxygen gas being used for welding; 2) a copper pipe of the same dimensions filled with a flux made of 78% calcined borax, 4% boric acid, 13% sodium chloride and 5% sodium bicarbonate, with welding by oxygen-acetylene gas; 3) a cast iron tube with a flux of 27% anhydrous sodium carbonate, 23% calcined borax and 50% sodium nitrate (oxy-acetylene welding);

Card 1/2

4) an aluminum or duralumin tube with fluxes as recommended

SOV/135-59-4-12/18

The Use of Filler Metal in the Form of a Tube filled with Flux

in literature (propane-oxygen welding). The method results in an economy of flux and ensures good quality of welds due to an even feed of flux.

Card 2/2

MONOTANI, V. A.: "Circular water spillways on a rth dams." Min
Higher Education USSR. Moscow Inst of Mater Jeenong Engineers
imeni V. R. Vil'yams. Moscow, 1956.
(Discertation for the Degree of Candidate in Fechnical Sciences).

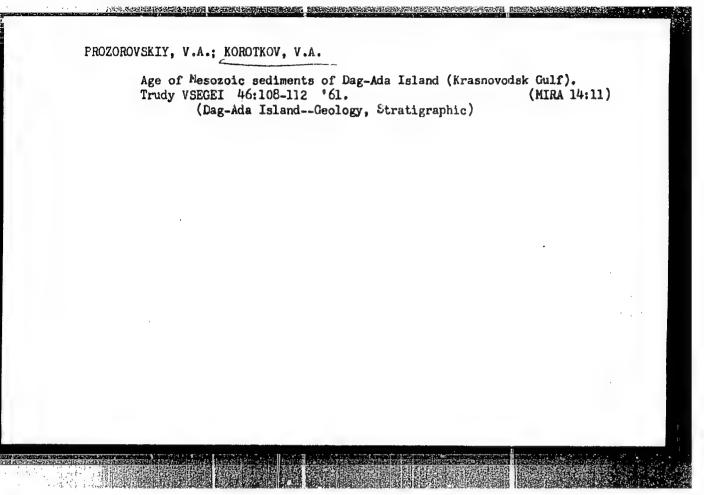
S0: Anichnaya Letoris!, No 23, 1976

RCROTKOV, V. A.

Beets and Beet Sugar

Shortcomings of the semi-hopper bins for sugar beets. Sakh.prom., 26, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1956, Uncl.



PROZOROVSKIY, V.A., mladshiy nauchnyy sotrudnik; KOROTKOV, V.A.,
mladshiy nauchnyy sotrudnik; MAMONTOVA, Ye.V.; PORETSKAYA, Ye.S.;
PROZOROVSKAYA, Ye.L., mladshiy nauchnyy sotrudnik; KRYRCOL'TS,
G.Ya., nauchnyy red.; TOKAREVA, T.N., vedushchiy red.;
YASHCHURZHINSKAYA, A.B., tekhn.red.

[Neocomian in western Turkmenia] Neokom Zapadnoi Turkmenii.
Leningrad, Gos. nauchno-tekhn.izd-vo neft.i gorno-toplivnoi
lit-ry Leningr.otd-nie, 1961. 185 p. (Leningrad. Vsenoiuznyi
geologicheskii institut. Trudy, vol. 51). (MIRA 15:3)

(Turkmenistan—Geology, Stratigraphic)

KOROTKOV, V.A.; PROZOROVSKIY, V.A.

Age of upper Jurassic sediments in the Kuba-Dag (Krasnovodsk Peninsula). Vest.LGU 16 no.24:134-137 '61. (MIRA 14:12) (Kuba-Dag--Geology, Stratigraphic) (Paleontology, Stratigraphic)

KOROTKOV, V.A., kand. tekhn. nauk

Desing of storm inlets and tekh. no.12:27-28 D '61.

(Sewerage)

KOROTKOV, V.A., kand. tekhn. nauk

Desing of storm inlets and tekh. no.12:27-28 D '61.

(Sewerage)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824910019-7

L 15729-63 EWP(k)/EWT(1)/EWG(k)/EWP(q)/EVT(m)/BDS/EEC(b)-2/ES(w)-2 AFFTC/ASD/IJP(C)/SSD Pf-4/Pz-4/Pi-4/Pab-4/Po-4 AT/JU/EH

ACCESSION NR: AR3002668

8/0124/63/000/005/8026/8027

SOURCE: Rzh. Mekhanika, Abs. 5B130.

Korotkov, V.A.

TITLE: Pulse discharge in liquid and some possibilities for its application

CITED SOURCE: Sb. Materialy Konferentsii molodykh uchenykh AN BSSR. Minsk. AN BSSR, 1962, 55-62

TOPIC TAGS: electrical discharge, pulse discharge, liquid, shock wave, breakdown, oscillogram, channel, perturbation

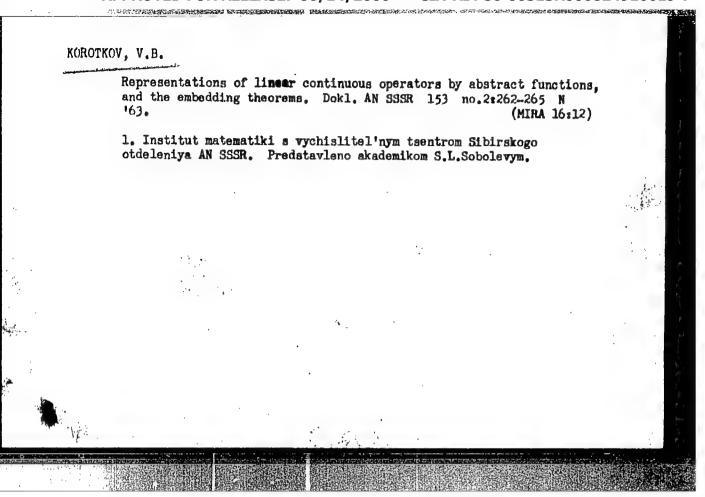
TRANSLATION: A survey is made of the phenomena which occur during the electrical pulse discharges in liquids. The background of the studies is presented, beginning with the classical experiments of Lane (Lane T., Philos. Trans. Royal Sep. London, 1767, 57, 451-460). The discharge process and the formation of the shock wave are then considered. Typical oscillograms of the current in the discharge and the voltage on the working interval during the liquid breakdown pulse discharge are introduced. The hydrodynamic theory of the broadening of the

Card 1/2

AUTHOR:

15729-63 CCESSION NR:	annel is prese	nted. Also note	d is the i	ntensive "	Mald avenue	Ô	
om the disci nt after it tion of the	large channel, by the pulset discharges in n pressing and	the wave is mailons of the disc liquids are con stamping as	ntained by harge cham	paration of elementary nel. The r their use and so on.	the shock perturbat practical a	vave ions	
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AUTHOR: Boginskiy, L. S.; Kabel'skiy, I. M.; Korotkov, V. A.; Loginov, P. I.;	
Roman, O. V.; Sharin, Yu. Ye.	
Class 49, No. 173109	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 110	
TOPIC TAGS: powder metallurgy, powder compaction, explosive compaction	
ABSTRACT: This Author Certificate introduces a method for the explosive compaction of thin-wall, metal-powder bushings or shapes. In this method, exploding wire is of thin-wall, metal-powder bushings or shapes in a pressure-transferring medium.	NAME.
of thin-wall, metal-powder bushings or shapes. In this metal-powder bushings or shapes or	
ASSOCIATION: none SUB CODE: IE,EC	
SUBMITTED: 02Jan63 ENCL: 00 SUB CODS. 24/04 NO REF SOV: 000 OTHER: 000 ATD PRESS: 4/04	



KOROTKOV, V.B.

- S. L. Sobolev's imbedding theorems for abstract functions. Dokl. AN SSSR 141 no.2:308-311 N '61. (MIRA 14:11)
- 1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno akademikom S.L.Sobolevym.

 (Banach spaces) (Functional analysis)

THE PROPERTY OF THE PROPERTY O

KOROTKOV, V.B.

Direct and inverse imbedding theorems for certain spaces of abstract functions of sets. Dokl.AN SSSR 144 no.42717-720 (MIRA 15:5) Je 162.

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno 1. Matematicswams, akademikom S.L.Sobolevym. (Topology)

Dokl. AN SSSR 1	bstract functions of sets and the imbedding theorems. okl. AN SSSR 146 no.3:531-534 S 162. (MIRA 15:10)		
 Matematiche akademikom S.L. (Banach s 	Sobolevym.	V.A. Steklova AN SSS erators (Mathemati	
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KOROTKOV, V.B.

Tests of compactness in regions of abstract functions, and complete continuity of the imbedding operator. Dokl. AN SSSR 160 no.3:530-533 Ja 165. (MIRA 18:3)

1. Institut matematiki Sibirskogo otdeleniya AN SSSR. Submitted July 16, 1964.

GIL'DERMAN, Yu.I.; KOROTKOV, V.B.

Ceneral type of perfectly continuous operators acting from an L_p-space toward a B-space X. Sib.mat.zhur. 4 no.6:1426-1430 N-D '63. (MIRA 17:9)

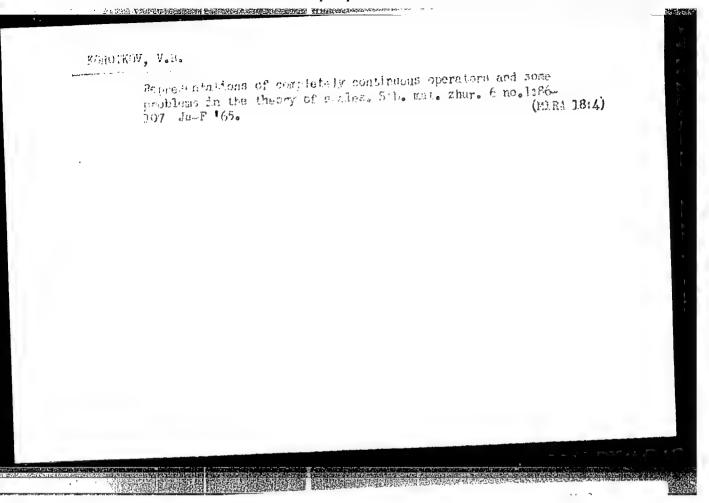
THE THE SHADE WILLIAM TO SHADE THE S

KORGTKOV, V.B.; GIL'DERMAN, Yu.I.

Fourier transform for abstract functions of sets. Sib. mat. zhur. 5 no.42844-852 Jl-Ag*64 (NIRA 17:8)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824910019-7



USSR / Cultivated Plants. Potatoes. Vegetables. Melons. É-M

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25040

Author : Korotkov, V. F.

Inst

: Growing Vegetables without the Use of Hotbeds in Title

the Crimea

Orig Pub: Sad i ogorod, 1957, No 1, 20-23

Abstract: The complete agrotechnical system is presented on cultivating tomato, eggplant, late cabbage and pepper crops without the use of hotbeds. -- T. I.

Shapiro

Card 1/1

56

AUTHORS:

Buyanov, N.V., Zubkovskiy, S.L., Kovalenko, T.V., 32-24-6-15/44

Korotkov, V.F., Lindstrem, V.R.

TITLE:

Spectral Analysis of Steels on the Modernized Apparatus FES -1 (Spektral'nyy analiz staley na modernizirovannom pribore FES -1)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 6, pp. 703-708 (USSR)

ABSTRACT:

Photometrical reproducibility was determined, and in this connection it was found that the average arithmetical error on the sensitivity scale of 1:1 amounted to ± 0.5% and with 5:1 to + 0.15%.

Measurements of the intensity of the line of iron 5227 % obtained from an Armoo iron sample showed that on the scale 1:1 a reproducibility of + 1.1% is obtained with a 4.5 ampere current, and that at 5:1 it amounts to + 0.62%. It was observed that a distance between electrons of 1.5 mm warrants accurate reading and good reproducibility; a base electrode of copper was used on this occasion. For the purpose of working out the method of analysis the etalons of the UIM, of the TaniichM, and of the plants "Elektrostal", "Serp i molot" and "Dneprospetsstal" were used. The spectral line, measuring accuracy, and reproducibility in connection with the analysis are mentioned. Carbon-containing low- and medium-alloyed steels were analyzed, and data concerning the

Card 1/2

KOROTKOV. V.F.

Euyanov, N.V., O.I. Vashkov, V.K. Gavrilova, and V.F. Korotkov (Central Scientific Research Institute of Ferrous Metallurgy). Spectral Determination of Hydrogen in Titanium, p. 174. Titan i yego splavy. vyp. II: Metallurgiya titana (Titanium and Its Alloys. No. 2: Metallurgy of Titanium) Moscow, Izd. vo AN SSSR, 1959. 179 p.

This collection of papers deals with sources of titanium; production of titanium dioxide, metallic titanium, and titanium sheet; slag composition; determination of titanium content in slags; and other related matters. The sources of titanium discussed are the complex sillimanite ores of the Kyakhtin-skoye Deposit (Buryatskaya ASSR) and certain aluminum ores of Eastern Siberia. One paper explains the advantages of using ilmenite titanium slags for the production of titanium dioxide by the sulfuric acid method. Production of metallic titanium by thermal reduction processes (hydrogen, magnesium, and carbon reduction) is the subject of several papers, while other papers are concerned with the electrolytic production of titanium. Other subjects dealt with are interaction of titanium with water vapor and with hydrogen and the determination of titanium in slags.

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OsypLack math Flant	8	thods of Analyting Eroducts	Mgalinskiy, Ya. M. N. W. W. Bagrine, and A. K. Tommore. Spectral Analysis of Chrom-Sass Miloys	Kotion, A. V. Role of Internal Standard in the Spectral Analysis of Various Vertralitops 95	Lalinnty, Ta. M., A. B. Shayerich, F. V. Bugtins, W. I. Chabisanin, and M. A. Perspektins, Spectral holysis of Ferroniobius, Ferroniobius, Perspectration Concentrate	*Samperich, A. B., M. A. Percelling, and M. A. Lobrina, Spectral Analysis of any and 75% Perrosilion	Engyrich A. S. Spectral Analysis of Malticomponent Systems With a TS Righ and Varying Contest of Components	* Imputor, S. F., S. L. Subternity, G. F. Sornitshin, F. F. Egyetter. and T. F. Kinderen. Spectral Analysis of Supel Victor Moderations 69 PRE-1 Instrument 69 PRE-1 Control S. S. Southerland Analysis of Cases Contrained in Nethin 70	x Exceptor, Th. M., KW. I. Ustinows, and D. Jo. Shaykins. Effect of Templeton on the Results of the Spectral Analysis of Righ-Speed Cutting Steel	**Spark Transfer for Minimating the Effect of Composition, Structure, and Name of Samples During the Spectral Analysis of Certain Alloys 50 minimates by The Name of P. Frighting, and V. L. Weitness. Investigation of the Effect of Structure on the Spectral Analysis Seculture of Structure on the Spectral Analysis Seculture.	Namewist, Th. H. Problem of the Entry of the Probe Matternia into the Texts (Cont. Cont.). The Cont. The Cont. (Cont. Cont.). The Cont. (Cont.).	Solutor, A. T., G. I. Marsa, and T. P. Shirokoretite. Double Ne- Traction of Uniaxial Seniconductor Trivials	Realotabile, G. To. Immedigation of Proposation Election of Oxidian Section of an Arc	Alesbornki <u>y. Th. H.</u> Some Distribution Characteristics of Particles In on A-C Arc	<u>Zolotublia, G. Its.</u> Investigation of the Interaction of the Components of an Alloy on the Degree of Ionization of Atoms	malysis of farrous and nectorross are juments, refractories and other mice terial of the conference includes action while the despendation of gasel), for metals and alloys, pure noble metals, ded to disseminate the latest experience ded to disseminate the latest experience that tanks at I. Outline and Ns. Ns.	PURIOSS: This collection of articles is interded for specific intuition into material representations are described for specific interviews and senferous and senferous architectal there, and for the great purposed of the senath-opining industry, grological and prospecting organizations, and similar extensible research importances.	Eds.; Aron Bordstrick Shayerich and Gircally Perforich Sharmator; Tech.	Sponsoring Agency: Unal'skly fillel Abadeoil meak SUR, Komteelys po spek- troskopii and Ural'skly dom tabbniki VSTD.	Materialy 2 Grainshops seventhanity po spektroskopil, Sweddowsk, 1998 s. (Materials of the Second Grain Conference on Spectroscopy, Medd an Sweddowsk, Westlangtidak, 1999, 200 p. Errata skip knowering a printed, 1,000 copies printed.	Tral'shops sevesbehaniye po spaktros?	PRACE : SOCK PURISHED SOCK 1 SOCK A9959	
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BUYANOV, N.V.; VASHKOV, O.I.; GAVRILOVA, V.K.; KOROTKOV, V.F.

Spectrum determination of hydrogen in titanium. Titan i ego splavy no.2:174-178 '59. (MIRA 13:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

(Spectrum analysis) (Titanium-Hydrogen content)

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sov/48-23-9-33/57

.24(7)
AUTHORS: Buyanov, N. V., Fedorova, L. M., Korotkov, W. D.

TITLE: The Influence of Chemical Composition and Heat Treatment Upon

the Results of Nitrogen Determination by Spectroscopical

Methods

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 9, pp 1126 - 1128 (USSR)

ABSTRACT: In the present paper the influence exercised by "third" ele-

ments and of heat treatment on the results of nitrogen determination in various brands of steel is dealt with. The composition of the samples was determined three times at the chemical laboratory and the spectra were recorded in a vacuum chamber. The chamber was first evacuated to 10⁻¹ torr, after which it was filled up with helium up to a pressure of 350 torr. Tungsten electrodes were used (distance 0.35 mm, exposition 0.2 sec); analysis was carried out by means of the line N 3999.5 %. The light source used was a low-voltage spark with a semiperiod discharge. On the four steels of the type St10, Kh25, Kh25T and Kh25Yu5 the influence exercised

Card 1/2 by "third" plements (chromium, aluminum, titanium, and silicon)

The Influence of Chemical Composition and Heat SOV/48-23-9-33/57 Treatment Upon the Results of Nitrogen Determination by Spectroscopical Methods

was investigated. The results obtained are shown by the diagram in figure 1. With an admixture of 1% Ti in the steel of the type Kh25 (and Kh25T) the blackening of the nitrogen lines increased to 0.80. An Al-admixture of 5% increased the line intensity to 1.5. In general it was found that the admixture of the above elements alters the results of nitrogen determination considerably. The influence of heat treatment was investigated in the case of the steels of the types 10, ShKh15 and Kh25. Hardening of the samples reduces the slope of the calibration curve considerably, and in the case of the steel of the type 10 the concentration-sensitivity of the lines was lost altogether. Annealing of the samples improves the reproducibility of analyses, whereas they are deteriorated by tempering. Furthermore, the influence exercised by the degree of purity of helium was discussed. There are 2 figures.

Card 2/2

8(2) AUTHORS:

SOV/32-25-3-47/62 Korotkov, V. F., Kondrat'yev, P. A., Sobolev, A. A.

TITLE:

Electron Time Relry for Spectral Analysis (Elektronnoye rele

vremeni dlya spektralinogo analiza)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, p 367 (USSR)

ABSTRACT:

The electron time relay described has several favourable characteristics: variations of the voltage of + 20 volt do practically not affect the operation of the relay, a determination of the combustion time and the exposure can be carried out with an accuracy of + 0.2%. The relay works without transformer, an initial heating of the device prior to operation is unnecessary, and it can be manufactured in a plant laboratory. A diagram based on the common standard relay type MKU-48 is given (Fig.). The description of the device prior to the tenth of the common standard relay type

MKU-48 is given (Fig). The description shows an application of capacitors of the types KMBG and KB, a voltage stabilizer SG 1 P, resistances VS-5 and VS-0.25, VS-0.5, VS-1 and VS, and a thyratron MTKh-90. The device can be set to any combustion and exposure time by charging the second standard relay type

and exposure time by changing the resistances. The time relay allows analyses with or without electrode combustion.

Card 1/2

There are 1 figure and 2 Soviet references.

SOV/32-25-3-47/62

Electron Time Relay for Spectral Analysis

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ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific

Research Institute of Ferrous Metallurgy)

Card 2/2

S/032/60/026/010/024/035 B016/B054

AUTHORS:

Buyanov, N. V., Zubkovskiy, S. L., Kovalenko, T. V.,

Korotkov, V. F., and Lindstrem, V. R.

TITLE:

Experience Made With the Photoelectric Apparatus AQC-10 (IFS-10)

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol. 26, No. 10,

pp. 1155-1158

TEXT: The authors have been working for one year with the photoelectric spectral apparatus AΦC-10 (DFS-10) which had been described previously (Ref. 1). They checked the reproducibility of recording of electric signals and of light. Non-screened light sources (arc and spark) deteriorate the reproducibility of results considerably if these sources are 4-5 m distant from the apparatus. The shock absorption of the instrument was good since the tensile-testing machines operating in the neighborhood did not effect any shifts of exit slits with respect to the spectrum. Also the fluctuations of air moisture between 25 and 70% had no detrimental effect. Only 85-87% of relative air moisture effected a rapid change in readings. Temperature fluctuations between 17 and 29°C in the room

Card 1/3

Experience Made With the Photoelectric Apparatus ΑΦC-10 (DFS-10)

S/032/60/026/010/024/035 B016/B054

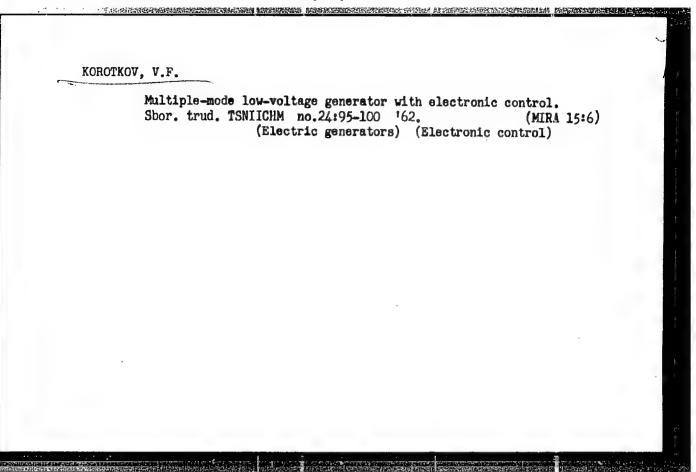
did not influence the reproducibility of results although the carriages were displaced noticeably (Fig. 1). Therefore, a steady temperature should be maintained in the room. As examples for metal analyses, the authors describe the investigation of crude iron, plain steels, mediumalloyed steels, stainless steel of the type 1X 18 H 9T (1Kh18N9T), and high-speed steels of the types P9 (R9) and P18 (R18). Figs. 2-8 show calibration diagrams for the determination of single alloy elements. The examples given and the experience made with the instrument justify the statement that the instrument DFS-10 guarantees a rapid and accurate analysis of crude iron and steel, including some complicated steel alloys. At present, the apparatus is being used for series analyses in factories. The values given in the paper for the errors of reproducibility were confirmed by analyses of factory specimens. A single analysis of the specimen for six elements takes 2.5 min. A repetition of the analysis takes the same time. The absolute sensitivity of analysis on the instrument mentioned does not deviate noticeably from that of photographic methods. The authors recommend, however, an improvement and simplification of the fitting and design of the instrument. There are 8 figures and 4 Soviet references.

TOTAL CONTROL OF THE PROPERTY OF THE PROPERTY

Card 2/3

KOROTKOV, V.F.; TITOVETS, A.V.

Determination of sulfur, phosphorus, and carbon in low-alloy steels with a vacuum quantimeter. Izv. AN SSSR. Ser. fiz. 26 no.7:918-920 Jl '62. (MIRA 15:8) (Chemistry, Analytic—Quantitative) (Steel alloys)



	PHASE I BOOK EXPLOITATION SOV/618	11 :		
	Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.			
	Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.			
	Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova;			
•	PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scien tific research organizations, as well as for students of relate disciplines and for technologists utilizing analytical results.	d ·		
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Materials of the Third Ural Conference (Cont.)

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chemicsova for help in preparing the materials for the press.

TABLE OF CONTENTS:

PART I

Sheratkov, Yu. A., and L. F. Maksimovskiy. Investigation of the dependence of the total intensity of spectral lines on the concentration of elements in an arc-discharge plasma.

Card 2/15

- Control of the cont	MENERAL MENERAL MENERAL MENERAL PERSONNEL PERSONNEL PROGRAMMENT STEER STEER STEER STEER STEER STEER STEER STEER	·	te statementalentem	10 size
Materials o	f the Third Ural Conference (Cont.)	807/6181	2	
. Kozhevnikov relative tration	a, L. A., and A. M. Shavrin. Dependence of the intensity of chromium lines on chromium concen- in standards with a ferric oxide base	134		
Puzanova, K	. P. Spectral determination of strontium in merals	135		1 ×1 %
in solvi	P. Selection of conditions of arc-discharge ing some spectral-analytical problems	136	:	
electro	V. F. Universal low-voltage generator with nic control	138		•
Liehanskiy spectra	, G. Ya. Automatic device for photographing	142	A TAN BERTAIN CO. B. M. M. M.	H
Card 11/15			to an expensive transfer or the second of th	, i
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KOROTKOV, V.F.; TIMOSHENKO, N.N.; TITOVETS, A.V.

Developing a method of sulfur, phosphorus, and carbon analysis using a vacuum quantometer. Sbor.trud. TSNIICHM no.31:7-18 '63. (MIRA 16:7) (Sulfur—Spectra) (Fhosphorus—Spectra) (Carbon—Spectra)

BULAT, N.L.; KOROTKOV, V.F.; FAYVILEVICH, G.A.; ZHURENKOV, P.M.

Microspectral analysis. Sbor.trud. TSNIICHM no.31:34-40 '63.
(MIRA 16:7)

(Steel--Metallography) (Steel--Spectra)

BUYANOV, N.V.; KONDRAT'YEV, P.A.; KOROTKOV, V.F.

Spectrum analysis by means of a plain, high-voltage spark generator of high stability. Sbor.trud. TSNIICHM no.31:46-49 '63.

(MIRA 16:7)

(Spectrum analysis) (Electric spark)

KOROTKOV, V.F.; KONDRAT'YEV, P.A.

Automatic pulse generator for spectrum analysis, Sbor.trud.
TSNIICHM no.31:50-52 '63. (MIRA 16:7)
(Oscillators, Electric) (Spectrum analysis)

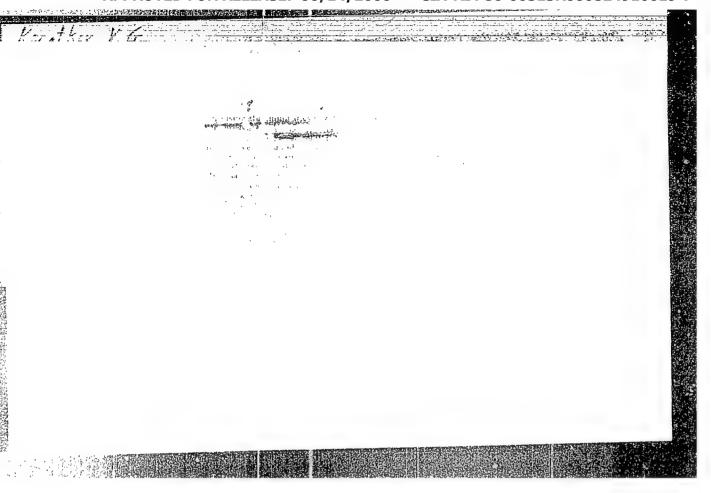
MONOTHOV, V. G. - "Obtaining new means of combatting porosity in aluminumalloy castings". Sverdlovsk, 1955. Min Higher Eduction UCSK. Ural Polytechnic Inst imeni S. M. Kirov, Chair of Foundry Practice. (Dissertation for the Degree of Candidate of Technical Science.)

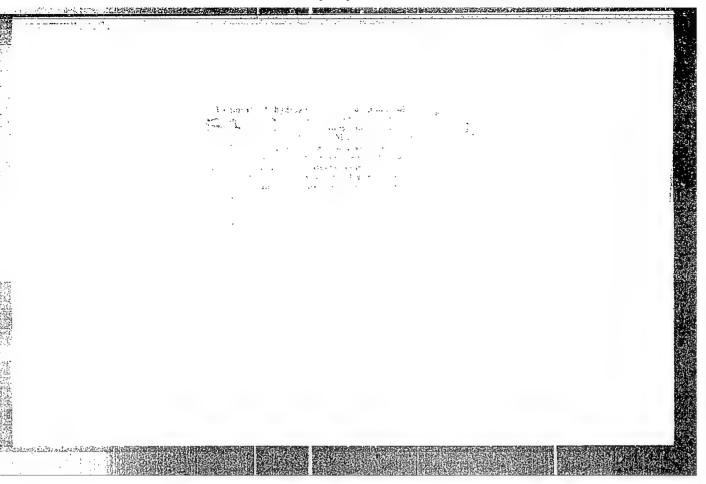
SO: Knizhanaya Letopis', No. 43, 22 October 1955. Moscow

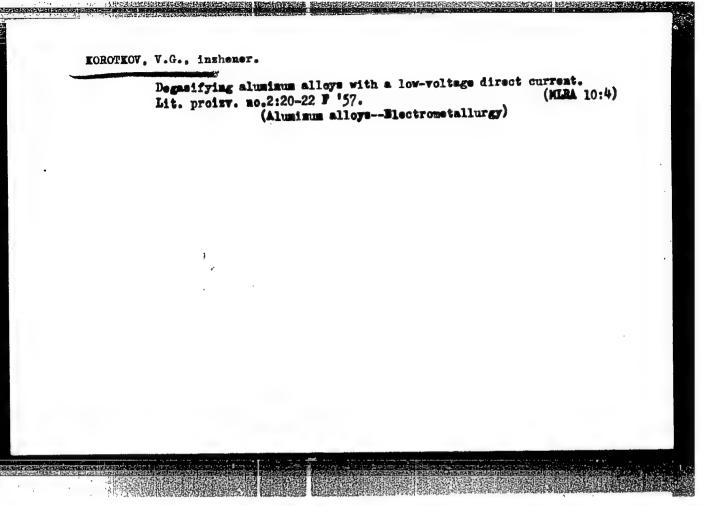
GOESHKOV, A.A., kandidat tekhnicheskikh nauk; KOROTKOV, V.G., inzhener.

Simaltaneous modification and degassing of aluminum alloys. Lit.
proisv. no.10:6-9 0 '56.
(Aluminum alloys)

(Aluminum alloys)

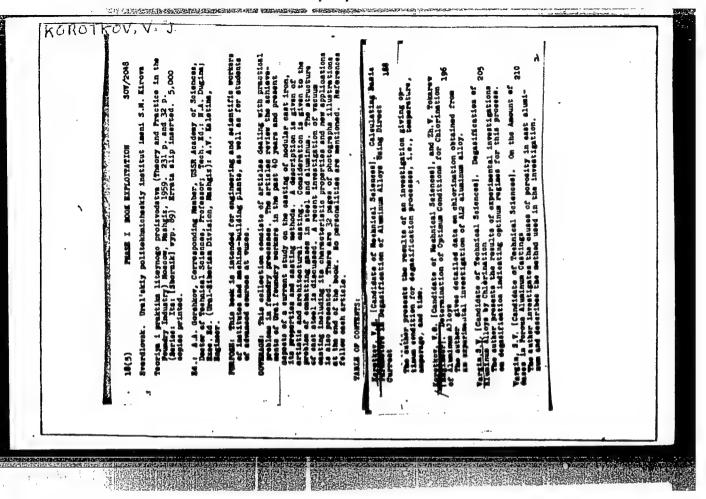






"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824910019-7



KOROTKOV, V.G., kand.tekhn.nauk

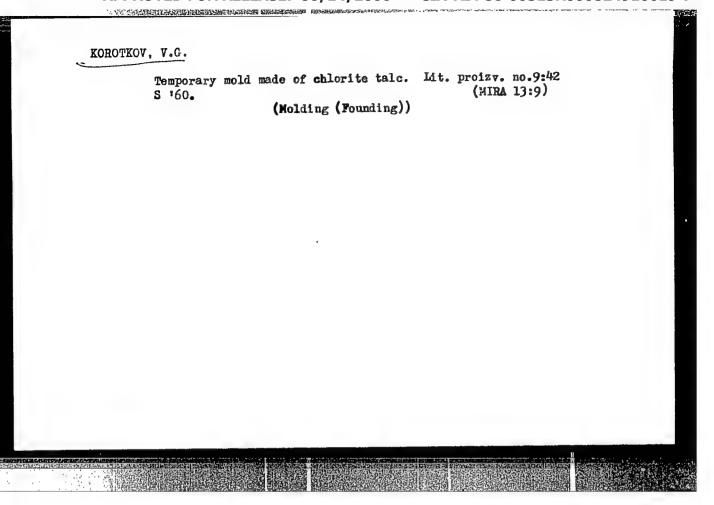
Calculating basic parameters in gas removal from aluminum alloys by means of direct currents. Trudy Ural.politekh. inst. no.89:188-195 '59.

(Aluminum alloys—Electrometallurgy) (Gases in metals)

KOROTKOV, V.G., kand.tekhn.nauk; TOKARNV, Zh.V., inzh.

Determining the most satisfactory conditions for chlorinating aluminum alloys. Trudy Ural.politekh.inst. no.89:196-204
[159.
[Aluminum alloys—Hydrogen content) (Chlorination)

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KUZELEV, Mikhail Yakovlevich; SKVORTSOV, Aleksey Anatol yevich; SMELYAKOV, Nikolay Nikolayevich; DUBITSKIY, G.M., doktor tekhn. nauk, retsenzent; ZOBNIN, B.F., kand. tekhn. nauk, retsenzent; KOROTKOV, V.G., kand. tekhn. nauk, retsenzent; LEVCHENKO, P.V., kand. tekhn.nauk, retsenzent; MAKURIN, P.I., kand. tekhn. nauk, retsenzent; PASTUKHOV, A.I., kand. tekhn. nauk, retsenzent; ROZENBERG, I.A., kand. tekhn. nauk, retsenzent; SERGEICHEV, N.F., kand. tekhn. nauk, retsenzent; SERGEICHEV, N.F., kand. tekhn. nauk, retsenzent; FILIPPOV, A.S., kand. tekhn. nauk, retsenzent; YAROSHENKO, Yu.G., kand. tekhn. nauk, retsenzent; BAZAROVA, N.V., inzh., retsenzent; BLANK, E.M., inzh., retsenzent; VOLPYANSKIY, L.M., inzh., retsenzent; ZAKHAROV, B.P., inzh., retsenzent; MYSHALOV, S.V., inzh., retsenzent; RAZUMOVA, M.S., inzh., retsenzent; SHKUNDI, R.M., inzh., retsenzent; DUGINA, N.A., tekhn. red.

[Handbook of foundry practice] Spravochnik rabochegoliteishchika. Izd.3. Moskva, Mashgiz, 1961. 584 p. (MIRA 15:4) (Founding-Handbooks, manuals, etc.)

BATALOV, Aleksey Nikolayevich; MYKOL'NIKOV, Anatoliy Andreyevich; SHTUNDEL', Rudol'f Ivanovich; KOROTKOV, V.G., kand. tekhn. nauk, retsenzent; DUGINA, N.A., tekhn. red.

[Practice in making large castings from bronze] Opyt izgotovleniia krupnykh otlivok iz bronzy. Moskva, Mashgiz,
1963. 46 p. (MIRA 16:4)

(Bronze founding)

AM4029015

BOOK EXPLOITATION

S

Korotkov, Veniamin Grigor'yevich

Refining of casting aluminum alloys (Rafinirovaniye liteynywkh alyuminiyevywkh splavov). Moscow, Mashgiz, 63. 0126 p. illus., biblio. 3,000 copies printed

TOPIC TAGS: aluminum alloy casting, aluminum alloy refining, inclusion in casting defect elimination, aluminum casting technology

PURPOSE AND COVERAGE: The book describes the causes for occurrence of various types of failures in castings made of aluminum alloys, and recommendations are made gases or water vapor with aluminum alloys is discussed and refining methods used in alloys with gases and nonmetallic inclusions, and individual aspects of the present furnaces are considered. New methods for refining and controlling liquid alloys are discussed.

TABLE OF CONTENTS [abridged]:

Card 1/2

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IV. Technol V. Intensif	ogy of n	efinin-	-7		•		milk to	S CHOOLS		- 3
V. Intensif opment of na VI. Control	ication	of moies	amminim	alloys u	nder sho	D gonditia		-		-
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ACCESSION NR: AP4018294

8/0128/64/000/002/0036/0038

AUTHOR: Korotkov, V. G.

TITLE: Refining aluminum alloys by a combined method

SOURCE: Liteynoye proisvodstvo, no. 2, 1964, 36-38

TOPIC TAGS: aluminum alloy, aluminum, refining, flux refining, salt refining, vacuum refining, combined refining method, degassing, metal purification, nonmetal-lic inclusions in alloy, metal filtration, filtration

ABSTRACT: A method based on the combination of several refining procedures for aluminum alloys is proposed as an improvement on the present separate procedures. Two variations of this method are described: 1) aluminum alloy degassing and removal of nonmetallic inclusions by flux treatment or by salt (MnCl₂) treatment in vacuum; 2) filtration of the previously degassed alloy through magnesite grains: (15-25 mm in diameter) or through liquid flux composed of Na, Mg, and Ca chlorides, or NaAlF₆ and CaF₂. The metal is purified in a chamber lined with refractory materials, and is poured back into the furnace where it is mixed with the impure

Card 1/2

ACCESSION NR: APLO1829L metal, thus increasing its purity. For a satisfactory purification the mixed metal has to pass through one and one half cleaning cycles. Filtrating of previously degassed metal can be accomplished in a ladle or in a special container divided by a vertical baffle which does not extend to the bottom. The filtering material is placed on one side, and the metal poured over it is collected on the opposite side after passing through the filter. The best results were obtained by the second method. Orig. art. has: 4 figures. ASSOCIATION: none SUBMITTED: DATE ACQ: MCL . 00 SUB CODE: ML NO REF SOVE OO2 OTHER:

KOROTKOV, V.G.

Reagents for Al₂O₃ determination in aluminum and its alloys.

Zav. lab. 30 no.9:1115 '64. (MIRA 18:3)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

KOROTKOV, V.G.

Sampler for taking samples of liquid metal. Zav. lab. 30 no.9:1152 '64. (MIRA 18:3)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

ARKHANGEL'SKIY, Yu.A., otv. za vypusk; ATABEKOV, L.P.; CUBIN, S.A.; KLEY-KOV, V.S.; KOROTKOV, V.I.; KLYCHKOV, P.F.; LUTSKER, T.D.; LOBACHEV, V.M.; MEKKEL', M.A.; MANUSADZHYANTS, Zh.G.; SIVAKON', L.F.; KHAYKIN, V.A.; IOFTE, M.L., red.; NIKOLAYEVA, L.N., tekhn. red.

[Sefety regulations for truck transportation enterprises] Pravila tekhniki bezopasnosti dlia predpriiatii avtomobil'nogo transporta. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 71 p. (MIRA 14:7)

l. Profsoyuz rabotnikov sviazi, rabochikh avtomobil'nogo transporta i shosseynykh dorog. TSentral'nyy komitet. 2. TSentral'nyy komitet profsoyuza rabotnikov svyasi rabochikh avtomobil'nogo transporta i shosseynykh dorog (for Arkhangel'skiy). 3. Ministerstvo avtomobil'nogo transporta Kazakhskoi SSR (for Atabekov). 4. Ministerstvo avtomobil'nogo transporta i shosseynykh dorog RSFSR (for Gubin). 5. Moskovskiy avtomobil'no-dorozhnyy tekhnikum (for Kleykov, Korotkov). 6. Moszheldoravtopogruz (for Klychkov). 7. Ministerstvo avtomobil'nogo transporta i shosseynykh dorog USSR (for Latsker). 8. Tekhnicheskaya inspektsiya Moskovskogo gorodskogo i oblastnogo sovetov profacyuzov (for Lobachev, Mekkel'). 9. Laboratoriya okhrany truda Naushno-issledovatel'skogo instituta avtomobil'nogo transporta (for Mamusadzhyants). 10. Ministerstvo avtomobil'nogo transporta i shosseynykh dorog Latviyskoy SSR(for Sivakon'). 11.Glavnoye upravleniye grusovogo avtotransporta Mosgorispolkoma (for Khaykin). (Transportation, Automotive-Safety measures)

21(0), 31(4)

PHASE I BOOK EXPLOITATION

SOV/2257

Korotkov, Viktor Ivanovich, and Anatoliy Mefodiyevich Chernysh

Korabli budushchego; atomokhody (Ships of the Future; Atomic-powered Vessels)
Moscow, Voyen. Izd-vo M-va obor. SSSR, 1959. 112 p. (Series: Bibliotechka v pomoshch ofitseru VMF) No. of copies printed not given.

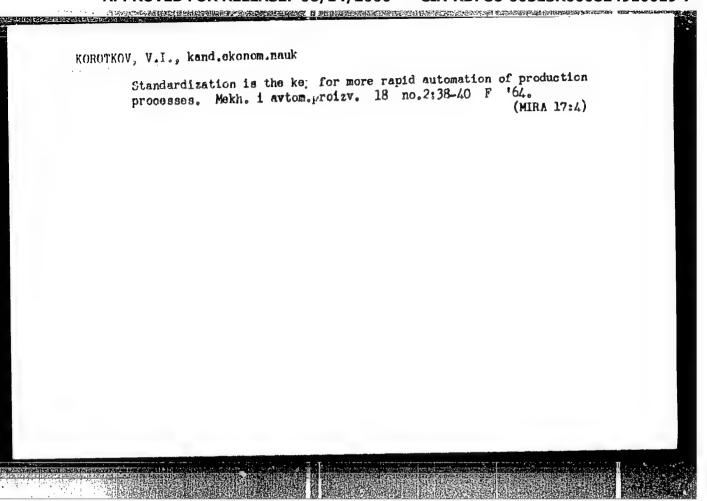
Ed.: D. D. Kulinich; Tech. Ed.: M. P. Zudina.

PURPOSE: This book is intended for officers of the Soviet Army and Navy and also for the general reader.

COVERAGE: The book is a popular presentation of the operational principles of atomic reactors, the basic characteristics of the use of atomic energy for ship propulsion, and also the future development of ships having atomic power plants. No personalities are mentioned. There are 11 references: 5 Soviet, and 6 English (1 translated into Russian)

Card 1/3

SOV/2257	
nips of the Future; (Cont.)	± 4
ABLE OF CONTENTS:	3
ntroduction	7
and Atomic Reactors	7
h. I. Atomic Energy and Atomic Reactors 1. Atomic energy - a new source of power for the propulsion of ships 1. Atomic energy - a new source of power for the propulsion of ships 1. Atomic energy - a new source of power for the propulsion of ships 1. Atomic Energy and Atomic Reactors	12
1. Atomic energy 2. Nuclear fission chain reaction	14
3. Thermonuclear reaction	15
N. N. Alaam mascrors.	22
- II- of a miclear reductor	26
Operation of a native of the n	29
	34
Ch. II. Atomic Power Plants for Ships 5. Special features and advantages of the use of atomic power plants	34
5. Special features and advantages of the documents	40
in ships	42
in ships 6. Special aspects of the design of atomic ships 6. Special aspects of atomic power plants for ships	44
	47
7. Possible layouts of Single-circuit configuration Single-circuit configuration Layout with two circulation loops Layout with a gas-turbine cycles	56
Layout with a gas-consumer,	
0.4 0/2	
Card 2/3	



KOROTKOV, V. I.

"The Influence of Cold Finishing on the Elastic Properties of Low-Carbon Steel." Cand Phys-Math Sci, Moscow Engineering Physics Inst, 6 Dec 54. (VM, 24 Nov 54)

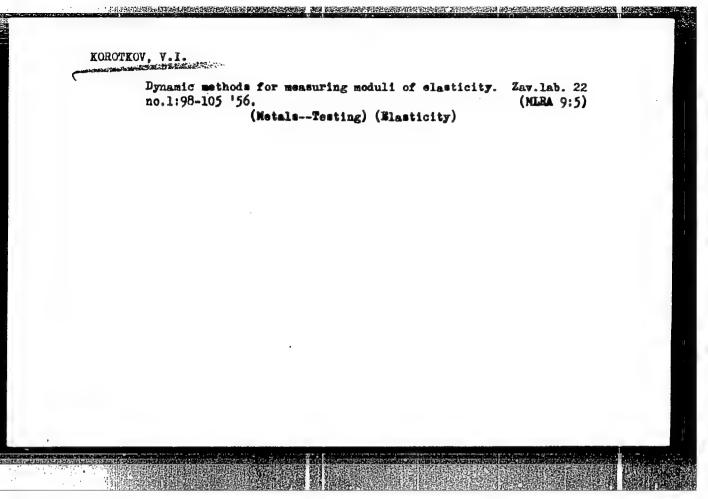
Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

KOROTKOV, V.I.

Effect of plastic deformation on the modulus of elasticity of low-carbon steel. Fig.met.i metalloved. 2 no.1:160-167 '56.(MIRA 9:7)

1. Moskovskiy institut stali imeni I. V. Stalina. (Steel--testing) (Blasticity)



SUBJECT

USSR / PHYSICS

CARD 1 / 2

PA - 1243

AUTHOR

KOROTKOV, V.I., FINKEL'STEJN, B.N.

TITLE

On the Influence exercised by Cold Treatment on DEBYE'S Char-

acteristic Temperature of a Carboniferous Steel.

PERIODICAL

Dokl. Akad. Nauk, 108, 846-847 (1956)

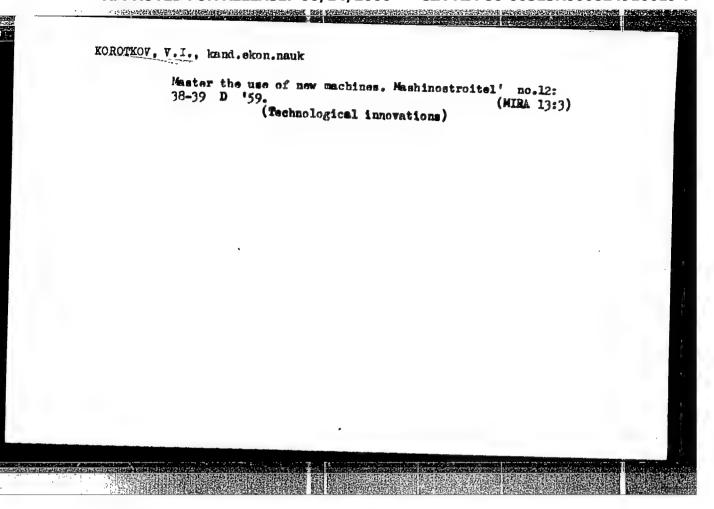
Publ. 6 / 1956 reviewed 8 / 1956

The DEBYE temperature \mathbf{e}_{D} is determined by the elastic spectrum of the investigated solid, and therefore it depends on the character and the strength of inter-atomic bindings. The present work shows the results obtained when determining \mathbf{e}_{D} for deformed carboniferous steel by measuring the density and the propagating velocity of elastic oscillations. When introducing the "average" propagation velocity and the elastic oscillations, which are determined by the relation:

 $(3/u^3)=(2/u_t^3)+(1/u_1^3)$, it applies that $\mathbf{e}_{\mathbf{D}}=(\mathbf{h}/\mathbf{k})(3N_{\mathbf{A}}/4\pi\mathbf{A})^{1/3}.\mathbf{D}^{1/3}$. Here \mathbf{u}_t and \mathbf{u}_1 denote the propagation velocities of the transversal and longitudinal oscillations respectively, $N_{\mathbf{A}}$ - Avogadro's number, \mathbf{A} - atomic weight, \mathbf{D} - density of the body. \mathbf{u}_t and \mathbf{u}_1 can be expressed by YOUNG'S modulus \mathbf{E} and by POISSON's coefficient $\mu:\mathbf{u}_t=\sqrt{\mathbf{E}/2(1+\mu)\mathbf{D}},\,\mathbf{u}_1=\sqrt{(1-\mu)\mathbf{E}/(1+\mu)(1-2\mu)\mathbf{D}}.$ In the case of long and thin rods \mathbf{E} and the shearing modulus \mathbf{G} are connected with the frequencies \mathbf{f}_1 and \mathbf{f}_t of the fundamental tone of the longitudinal and torsion oscillations respectively by the relations $\mathbf{E}=4\mathbf{L}^2\mathbf{D}\,\mathbf{f}_1^2$ and $\mathbf{G}=4\mathbf{L}^2\mathbf{D}\mathbf{f}_t^2$. (\mathbf{L} - length

of deformation.

INSTITUTION: Moscow Institute for Steel "I.W.STALIN"



"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824910019-7

KEKG / KOV

S/118/60/000/05/04/027

AUTHOR .

Korotkov, V.I., Candidate of Economic Sciences

TITLE:

A Handling System for a Group of Turret Lathes

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, No. 5,

pp. 11 - 12

The author introduces and briefly describes a handling system TEXT: designed by the ENIMS, serving four turret lathes and shown schematically on page 12. It performs the unloading of blanks from crating into intermediary bins, indexes them, transports them along the production line, conveys them aside, loads blanks into the lathes and carries the machined parts away from the line. It is designed to handle cross-shaped 1 and x-shaped fittings. Should it be necessary, the number of lathes in the group, as well as the dimensions of fittings can be varied. The above system incorporates a rotary platform, a magnet, a transloader, a vibro-bunker, a distribution conveyer, a charging and discharging device, and a transport vibration conveyer. There is 1 diagram.

Card 1/1

8/118/60/000/011/013/014

AUTHOR:

Korotkov, V.I., Candidate of Economical Sciences

TITLE:

Introduction of typical production processes

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 11, 1960,

52-54

TEXT: The Central Committee of CPSU commissioned (at the July 1960 Plenum) the Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee for Automation and Machine Building at the Council of Ministers of the USSR) and the State Committees of Industry Branches with the development of "typical" technological processes for the basic industries. The NIItraktorsel'khozmash and industry plants are doing the work, and the most expedient way of standardizing technological processes is stated to be the way of "standardized routing" ("tipovyye marshruty") for processes and "blind cards" ("karty-slepyshi") for operations. The "route cards" of NIItraktorsel'khozmash institute cover 35-40% of generaluse parts in agricultural machines. The producer plants will only have to set up such cards for their production, and the planning of production pro-

Card 1/4

Introduction of typical production ...

S/118/60/000/011/013/014 A161/A133

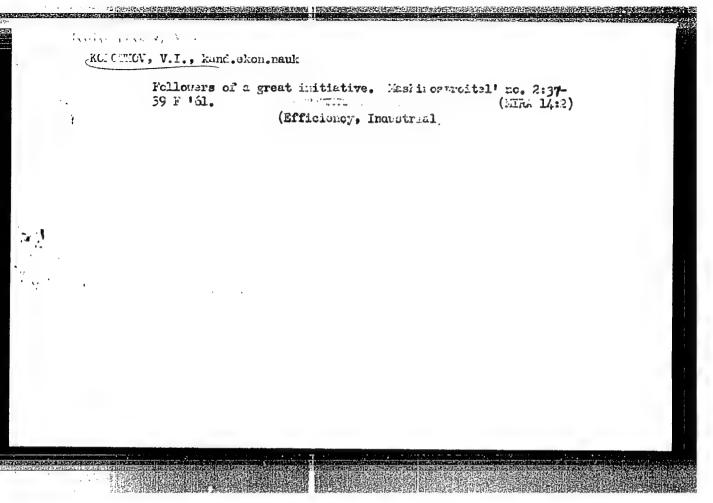
cesses will consist in the selection of cards and entering dimensions. An album of work drawings of such kind existed already in 1956. The system also eliminates the designing of auxiliary equipment for new work. Another means for cutting the production time and costs are the "universal'no-sborochnyye prisposobleniya", abbreviated "USP" ("universal assembly attachments") with standardized interchangeable parts and component units for typical operations. A considerable quantity of such attachments has been developed. Three examples are given: 1. A pneumatic self-centering drilling chuck with cams permitting the clamping of work with different diameters (the cams and the bushing are replaceable) (Fig. 1); 2. Expandable drill heads (Fig. 2) for drilling two to four holes in flanges and covers, with adjustable-position drill spindles permitting drilling with different spaces between the holes on diameters from 64 to 248 mm, used at the Tashsel mash, Gomsel'mash, the Tula Combine Plant and other plants; 3. Same drill heads in combination with a universal jig. The resetting of such heads, replacing the interchangeable jig parts takes 5-10 min. Nonstandard designs of parts are an obstacle for more extensive use of standardized attachments, and the quantity of available standardized measuring and auxiliary tools is yet low. There are 3 figures.

Card 2/4

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Introduce standard technological processes. Mekh.i avtom.proizv. 14
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(Automation) (Factory management)

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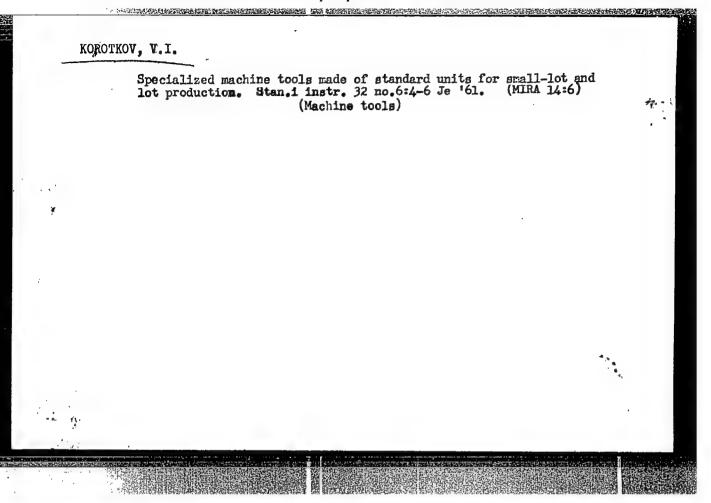
Spoeding-up technical progress in the machinery industry.

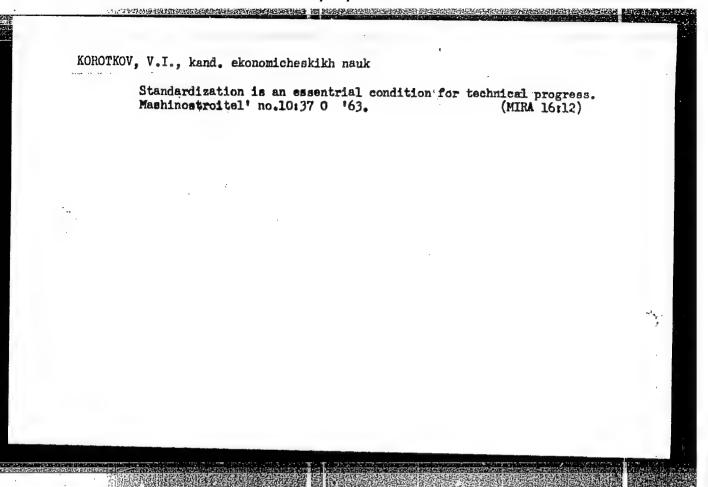
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Over-q?l standardization of production processes. Mashino-stroitel* no.7:43 Jl 164. (MIRA 17:8)

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33-35 k to5.

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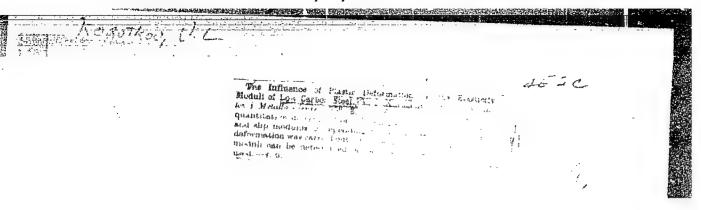
KOROTKOV, Vasiliy Ivanovich; RZHAVINSKIY, V.V., nauchn. red.; RYSKO, S.Ya., red.

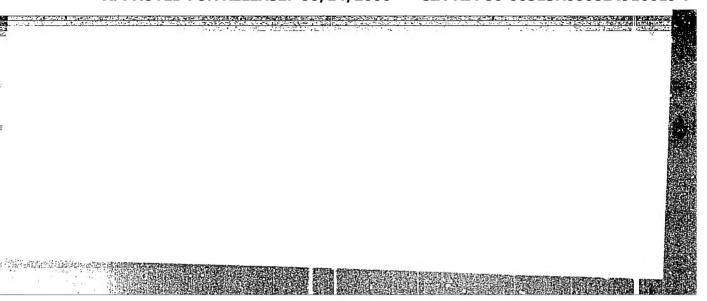
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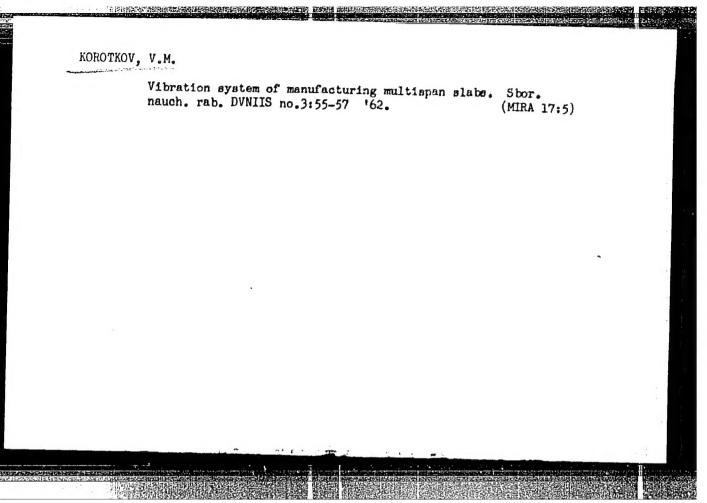
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